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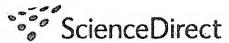
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1 Technical papers: Grid scheduling and protocols---Benchmarking XML processors for

applications in grid web services

Michael R. Head, Madhusudhan Govindaraju, Robert van Engelen, Wei Zhang November 2006 **Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC**'06

Publisher: ACM Press

Full text available: pdf(199.06 KB) html(2.32 KB)

Additional Information: full citation, abstract, references

Web services based specifications have emerged as the underlying architecture for core grid services and standards, such as WSRF. XML is inextricably inter-twined with Web services based specifications, and as a result the design and implementation of XML processing tools plays a significant role in grid applications. These applications use XML in a wide variety of ways, including workflow specifications, WS-Security based documents, service descriptions in WSDL, and on-the-wire format in SOAP-b ...

Keywords: XML, benchmarking, multi-core

2 Technical papers: Grid scheduling and protocols---Supporting dynamic migration in

tightly coupled grid applications

Liang Chen, Qian Zhu, Gagan Agrawal

November 2006 Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC

Publisher: ACM Press

Publisher: ACM Fless

Full text available: pdf(288.34 KB)

html(2.26 KB)

Additional Information: full citation, abstract, references

In recent years, there has been a growing trend towards supporting more tightly coupled applications on the grid, including scientific workflows, applications that use pipelined or data-flow like processing, and distributed streaming applications. As availability of resources can vary over time in a grid environment, dynamic reallocation of resources is very important for these applications, particularly because of their long-running nature, and because they often require large-volume data trans ...

Technical papers: Grid networks and portals---Evaluating grid portal security
David Del Vecchio, Victor Hazlewood, Marty Humphrey



November 2006 Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC

Publisher: ACM Press

Full text available: pdf(156.69 KB) (2.21 KB)

Additional Information: full citation, abstract, references

Grid portals are an increasingly popular mechanism for creating customizable, Web-based interfaces to Grid services and resources. Due to the powerful, general-purpose nature of Grid technology, the security of any portal or entry point to such resources cannot be taken lightly. This is particularly true if the portal is running inside of a trusted perimeter, such as a Science Gateway running on an SDSC machine for access to the TeraGrid. To evaluate the current state of Grid portal security, we ...

4 Technical papers: Grid applications---Sustainable adaptive grid supercomputing:

multiscale simulation of semiconductor processing across the pacific Hiroshi Takemiya, Yoshio Tanaka, Satoshi Sekiguchi, Shuji Ogata, Rajiv K. Kalia, Aiichiro Nakano, Priya Vashishta

November 2006 Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC

Publisher: ACM Press

Full text available: pdf(953,02 KB) 1 html(2.46 KB)

Additional Information: full citation, abstract, references

We propose a reservation-based sustainable adaptive Grid supercomputing paradigm to enable tightly coupled computations of considerable scale (involving over 1,000 processors) and duration (over tens of continuous days) on a Grid of geographically distributed parallel supercomputers. The paradigm is demonstrated for an adaptive multiscale simulation application, in which accurate but compute-intensive quantum mechanical (QM) simulations are embedded within a classical molecular dynamics (Md) sim ...

Keywords: density functional theory, grid application, grid remote procedure call, message passing interface, molecular dynamics, multiscale simulation, quantum mechanics

5 Technical papers: Grid allocation and reservation---Grid capacity planning with

negotiation-based advance reservation for optimized QoS

Mumtaz Siddiqui, Alex Villazón, Thomas Fahringer

November 2006 Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC

Publisher: ACM Press

Full text available: pdf(341.42 KB)

html(2.28 KB)

Additional Information: full citation, abstract, references

Advance reservation of Grid resources can play a key role in enabling Grid middleware to deliver on-demand resource provision with significantly improved Quality-of-Service (QoS). However, in the Grid, advance reservation has been largely ignored due to the dynamic Grid behavior, under-utilization concerns, multi-constrained applications, and lack of support for agreement enforcement. These issues force the Grid middleware to make resource allocations at runtime with reduced QoS. To remedy these ...

Keywords: advance reservation, capacity planning, grid resource allocation, negotiation

Technical papers: Grid allocation and reservation---Toward a doctrine of containment: grid hosting with adaptive resource control





Lavanya Ramakrishnan, David Irwin, Laura Grit, Aydan Yumerefendi, Adriana Iamnitchi, Jeff Chase

November 2006 Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC '06

Publisher: ACM Press

Full text available: pdf(601.10 KB)

Additional Information: full citation, abstract, references

Grid computing environments need secure resource control and predictable service quality in order to be sustainable. We propose a grid hosting model in which independent, self-contained grid deployments run within isolated containers on shared resource provider sites. Sites and hosted grids interact via an underlying resource control plane to manage a dynamic binding of computational resources to containers. We present a prototype grid hosting system, in which a set of independent Globus grids s ...

7 Algorithm 847: Spinterp: piecewise multilinear hierarchical sparse grid interpolation in





, <u>MATLAB</u> Andreas Klimke, Barbara Wohlmuth

December 2005 ACM Transactions on Mathematical Software (TOMS), Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(595.71 KB) Additional Information: full citation, abstract, references, index terms

To recover or approximate smooth multivariate functions, sparse grids are superior to full grids due to a significant reduction of the required support nodes. The order of the convergence rate in the maximum norm is preserved up to a logarithmic factor. We describe three possible piecewise multilinear hierarchical interpolation schemes in detail and conduct a numerical comparison. Furthermore, we document the features of our sparse grid interpolation software package spinterp for MATLAB.

Keywords: Multivariate interpolation, Smolyak algorithm, sparse grids

8 Web system-oriented performance: Capacity planning tools for web and grid



environments

Sugato Bagchi, Eugene Hung, Arun Iyengar, Norbert Vogl, Noshir Wadia
October 2006 Proceedings of the 1st international conference on Performance
evaluation methodolgies and tools valuetools '06

**Publisher: ACM Press** 

Full text available: pdf(453.91 KB) Additional Information: full citation, abstract, references, index terms

A key aspect in managing resources for customer sites is to predict and assess the load associated with a site in order to figure out how best to allocate resources for the site over time and to efficiently schedule tasks. The cost associated with the site and return on investment are also key parameters. This paper describes work we have done in developing tools for answering these critical questions. The tools use both analytical models and discrete event simulations to predict performance and ...

Keywords: capacity planning, grid computing, performance modeling, web performance

9 New ideas in placement: Large-scale placement by grid-warping

Zhong Xiu, James D. Ma, Suzanne M. Fowler, Rob A. Rutenbar

June 2004 Proceedings of the 41st annual conference on Design automation DAC '04

**Publisher: ACM Press** 

Full text available: pdf(491.95 KB)

Additional Information: full citation, abstract, references, citings, index

terms

Grid-warping is a new placement algorithm based on a strikingly simple idea: rather than move the gates to optimize their location, we elastically deform a model of the 2-D chip surface on which the gates have been roughly placed, "stretching" it until the gates arrange themselves to our liking. Put simply: we move the grid, not the gates. Deforming the elastic grid is a surprisingly simple, low-dimensional nonlinear optimization, and augments a traditional quadratic formulation. A ...

Keywords: algorithms, placement

10 Power grid design and analysis techniques: A stochastic approach To power grid

analysis

Sanjay Pant, David Blaauw, Vladimir Zolotov, Savithri Sundareswaran, Rajendran Panda June 2004 **Proceedings of the 41st annual conference on Design automation DAC '04** 

Publisher: ACM Press

Full text available: pdf(312.28 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Power supply integrity analysis is critical in modern high perfor-mance designs. In this paper, we propose a stochastic approach to obtain statistical information about the collective IR and LdI/dt drop in a power supply network. The currents drawn from the power grid by the blocks in a design are modelled as stochastic processes and their statistical information is extracted, including correlation infor-mation between blocks in both space and time. We then propose a method to propagate the stat ...

Keywords: IR drop, Ldi/dt, power supply networks

11 Oral presentation session VI: coverage and connectivity: Co-Grid: an efficient

© coverage maintenance protocol for distributed sensor networks Guoliang Xing, Chenyang Lu, Robert Pless, Joseph A. O'Sullivan

April 2004 Proceedings of the third international symposium on Information processing in sensor networks IPSN '04

**Publisher: ACM Press** 

Full text available: pdf(222.92 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Wireless sensor networks often face the critical challenge of sustaining long-term operation on limited battery energy. Coverage maintenance protocols can effectively prolong network lifetime by maintaining sufficient sensing coverage over a region using a small number of active nodes while scheduling the others to sleep. We present a novel distributed coverage maintenance protocol called the Coordinating Grid (Co-Grid). In contrast to existing coverage maintenance protocols which are based on s ...

**Keywords**: coverage, data fusion, distributed detection, energy conservation, sensor networks

12 <u>Can GRID services provide answers to the challenges of national health information</u> sharing?

I. Bilykh, Y. Bychkov, D. Dahlem, J. H. Jahnke, G. McCallum, C. Obry, A. Onabajo, C. Kuziemsky

October 2003 Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research CASCON '03

Publisher: IBM Press

Full text available: pdf(964.34 KB) Additional Information: full citation, abstract, references, citings, index

#### terms

It has been widely recognized that one of the keys to cost reduction and service improvement in national health care lies in the integration of medical information system. Integration of information can not only improve care delivery today, but it can also help build research bases to enhance future care delivery. The question is how to achieve such integration? Imposing a single client software solution or common clinical terminology does not appear likely to happen. That lack of single softwar ...

13 Models: Owner/user role in computational grid extension by non-dedicated resources Goran Martinovic November 2003 Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work GROUP '03 Publisher: ACM Press Full text available: pdf(422.96 KB)

Additional Information: full citation, abstract, references, citings, index terms Engagement of non-dedicated machines in the computational grid requires special attention by mapping. In addition to application, platform and mapping parameters, a human as a resource owner plays an extremely important role. The problem is easier for the owner/user who also requires grid services at the same time. The grid can provide a powerful support to CSCW. Resource concession can also be treated as cooperation in the grid extension. The proposed resource extension model is based on meetin ... Keywords: CSCW, computational grid, mapping, meeting scheduling, non-dedicated machines, owner/user 14 Standards: Standards for databases on the grid Susan Malaika, Andrew Eisenberg, Jim Melton September 2003 ACM SIGMOD Record, Volume 32 Issue 3 Publisher: ACM Press Full text available: pdf(104.72 KB) Additional Information: full citation, references, citings 15 I/O-Efficient Algorithms for Problems on Grid-Based Terrains Lars Arge, Laura Toma, Jeffrey Scott Vitter December 2001 Journal of Experimental Algorithmics (JEA), Volume 6 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(447.27 KB) The potential and use of Geographic Information Systems is rapidly increasing due to the increasing availability of massive amounts of geospatial data from projects like NASA's Mission to Planet Earth. However, the use of these massive datasets also exposes scalability problems with existing GIS algorithms. These scalability problems are mainly due to the fact that most GIS algorithms have been designed to minimize internal computation time, while I/O communication often is the bottleneck when p  $\dots$ 16 Technical correspondence: KGOL: a Knowledge Grid operating language

This paper presents the design and implementation of a Knowledge Grid operating

Full text available: pdf(313.86 KB) Additional Information: full citation, abstract, references

Hai Zhuge, Jie Liu

Publisher: ACM Press

April 2003 ACM SIGPLAN Notices, Volume 38 Issue 4

language and the programming environment KGOL. It provides not only a friendly user interface for end-users to easily access and manage the Knowledge Grid resources but also a programming environment for application developers to implement the Knowledge Grid applications. The KGOL programming environment consists of a parser, an interpreter, an execution engine, and a result generator. Comparisons between the KGOL,

Keywords: Grid operating language, Knowledge Grid, Web, XML

17	A consideration of the number of horizontal grids used in the routing of a masterslice
	layout
	Masayuki Terai, Hajime Kanada, Koji Sato, Toshihiko Yahara
	January 1982 Proceedings of the 19th conference on Design automation DAC '82

**Publisher: IEEE Press** 

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(678.68 KB) terms

In the masterslice LSI, since the wiring area is fixed, local wiring congestion is likely to occur, which may cause the occurrence of some wiring nets to be unroutable. If the number of grids used in the routing can be accurately predicted before the wire routing, it is possible to reduce greatly the occurrence of wiring nets to be unroutable. This paper describes that the minimum number of horizontal grids used in a routing can be theoretically proved under the condition that th ...

18 Power grid analysis and optimization: A static pattern-independent technique for



power grid voltage integrity verification Dionysios Kouroussis, Farid N. Najm

June 2003 Proceedings of the 40th conference on Design automation DAC '03

**Publisher: ACM Press** 

Full text available: pdf(244.46 KB)

Additional Information: full citation, abstract, references, citings, index terms

Design verification must include the power grid. Checking that the voltage on the power grid does not drop by more than some critical threshold is a very difficult problem, for at least two reasons: i) the obviously large size of the power grids for modern highperformance chips, and ii) the difficulty of setting up the right simulation conditions for the power grid that provide some measure of a realistic worst case voltage drop. The huge number of possible circuit operatio ...

Keywords: power grid, stat, voltage drop

19 Special section on grid computing: Benchmarks for grid computing: a review of



ongoing efforts and future directions

Allan Snavely, Greg Chun, Henri Casanova, Rob F. Van der Wijngaart, Michael A. Frumkin March 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 30 Issue 4

Publisher: ACM Press

Full text available: 🔁 pdf(600.22 KB) Additional Information: full citation, abstract, references, index terms

Grid architectures are collections of computational and data storage resources linked by communication channels for shared use. It is important to deploy measurement methods so that Grid applications and architectures can evolve guided by scientific principles. Engineering pursuits need agreed upon metrics---a common language for communicating results, so that alternative implementations can be compared quantitatively. Users of systems need performance parameters that describe system capabilitie ...

Keywords: benchmarks, grid computing

20 Towards efficient resource on-demand in Grid Computing

Kun Yang, Xin Guo, Alex Galis, Bo Yang, Dayou Liu

April 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 2

Publisher: ACM Press

Full text available: pdf(577.16 KB) Additional Information: full citation, abstract, references

The essence of Grid Computing is to provide efficient Resource on Demand (RoD). This paper addresses this challenge from the perspective of network, the living platform of Grid, by providing effective Quality of Service (QoS) mechanisms (both IntServ and DiffServ) inside the Grid networking environment. Specifically, the efficiency of this QoS mechanism is maximized by policy-based management taking care of the flexible control of QoS parameters/components and active networks technology looking ...

**Keywords**: Active Networks (AN), Grid Computing, Policy-based Management (PBM), Quality of Service (QoS), Resource on Demand (ROD), efficiency

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☐ 1. Document ID: US 20040167757 A1

L1: Entry 1 of 1

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040167757

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040167757 A1

TITLE: Method for the numerical simulation of a physical phenomenon with a

preferential direction

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Struijs, Robert

Tournefeuille

FR

US-CL-CURRENT: 703/2

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☐ 1. Document ID: US 20060282243 A1

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File: PGPB

Dec 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060282243

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060282243 A1

TITLE: Method, system and program storage device for simulating fluid flow in a physical system using a dynamic composition based extensible object-oriented architecture

PUBLICATION-DATE: December 14, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Childs; Paul Cambridge CA GB
DeBaun; David R. Danville CA US

Byer; Thomas J. San Gabriel US

US-CL-CURRENT: 703/10

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 2. Document ID: US 7152092 B2

L4: Entry 2 of 8

File: USPT

Dec 19, 2006

US-PAT-NO: 7152092

DOCUMENT-IDENTIFIER: US 7152092 B2

TITLE: Creating chat rooms with multiple roles for multiple participants

DATE-ISSUED: December 19, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20020119434 A1

August 29, 2002

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Beams; Brian R. Agoure Hills CA US

Harris; Scott B.

Elgin

IL

US

US-CL-CURRENT: 709/204; 434/323, 706/45, 706/50, 709/217

Full | Title | Citation | Front | Review | Classification | Date | Reference | Security | Security | Claims | KMC | Draw. De

☐ 3. Document ID: US 6658398 B1

L4: Entry 3 of 8

File: USPT

Dec 2, 2003

US-PAT-NO: 6658398

DOCUMENT-IDENTIFIER: US 6658398 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Goal based educational system utilizing a remediation object

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bertrand; Benoit Patrick Brossard CA

Zorba; Alexander Middletown CT Conant; Jonathan Christian Worcester MA

US-CL-CURRENT: 706/47; 706/45, 706/46

Full Title Citation Front Review Classification Date Reference Sequences Claims KWC Draw De

☐ 4. Document ID: US 6611822 B1

L4: Entry 4 of 8

File: USPT

Aug 26, 2003

US-PAT-NO: 6611822

DOCUMENT-IDENTIFIER: US 6611822 B1

\*\* See image for Certificate of Correction \*\*

TITLE: System method and article of manufacture for creating collaborative

application sharing

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY .

Beams; Brian R. Gurnee IL Harris; Scott B. Deerfield IL

US-CL-CURRENT: 706/11; 709/205, 719/320

Full Title Citation Front Review Classification Date Reference Constitution Claims KMC Draw De

#### 5. Document ID: US 6549893 B1

L4: Entry 5 of 8

File: USPT

Apr 15, 2003

US-PAT-NO: 6549893

DOCUMENT-IDENTIFIER: US 6549893 B1

TITLE: System, method and article of manufacture for a goal based system utilizing

a time based model

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

CITY .	STATE ZIP CODE	COUNTRY
Chicago	IL .	•
Natick	MA	
Chicago	IL	
Wheeling	IL .	
Worcester	MA	
Stratford	CT	
	Chicago Natick Chicago Wheeling Worcester	Chicago IL Natick MA Chicago IL Wheeling IL Worcester MA

US-CL-CURRENT: 706/60; 705/7, 705/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Proprinces.	Claims	KWC	Drawu De
П	6.	Docume	nt ID:	US 65	42880 B2						
		6 of 8					File: US	PT	Apr	1,	2003

US-PAT-NO: 6542880

DOCUMENT-IDENTIFIER: US 6542880 B2

TITLE: System, method and article of manufacture for a goal based system utilizing a table based architecture

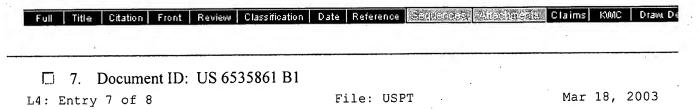
DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

INVENTOR INTORNALIZATION.						
NAME	CITY	STATE	ZIP	CODE	COUNTR	ĽΥ
Rosenfeld; Eren Tolga	New York	NY				
Bassey; Ekpedeme Mfon	Chicago	IL				
Zadik; Beth Elyse	Chicago	IL				
O'Connor; Martha Torrey	Verona	NJ				
Poon; Alexander Han Leung	Wolcott	CT				
Lannert; Eric Jeffrey	Chicago	IL				
Solomon; Tracey Andrea	Nepean				CA	
Conant; Jonathan Christian	Worcester	MA				
Zorba; Alexander	Middletown	CT				
Puccio; Carl Michael	Elk Grove Village	IL.				

MA Natick Gobran; Timothy John Gilchrist; James Andrew Charlestown MA IL Nichols; Mark Stewart Downers Grove CO Fleisher; Brandon Denning Littleton Friedman; Craig William Naugatuck CTLipede; Adebisi Detoro Boston MA IL Palatine Bailey; Matthew Allen

US-CL-CURRENT: 706/45; 706/47



US-PAT-NO: 6535861

DOCUMENT-IDENTIFIER: US 6535861 B1

TITLE: Goal based educational system with support for dynamic characteristics

tuning using a spread sheet object

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

NJ

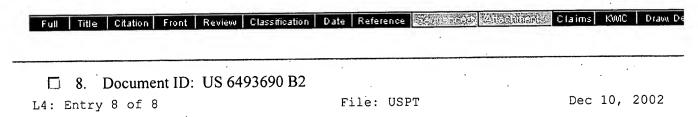
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ZIP CODE

COUNTRY

Verona O'Connor; Martha Torrey New York Rosenfeld; Eren Tolga

US-CL-CURRENT:  $\frac{706}{11}$ ;  $\frac{434}{107}$ ,  $\frac{434}{322}$ ,  $\frac{434}{322}$ ,  $\frac{706}{45}$ ,  $\frac{706}{46}$ ,  $\frac{706}{47}$ ,  $\frac{706}{60}$ 



US-PAT-NO: 6493690

DOCUMENT-IDENTIFIER: US 6493690 B2

TITLE: Goal based educational system with personalized coaching

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

COUNTRY CITY STATE ZIP CODE NAME

Brossard Bertrand; Benoit Patrick

Zorba; Alexander Middletown CT MA Conant; Jonathan Christian Worcester

US-CL-CURRENT: 706/45; 706/25, 706/60

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Term	Documents
FLOW	2017016
FLOWS	653354
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